

Date: Sat, 1 Oct 94 04:30:10 PDT  
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>  
Errors-To: Ham-Ant-Errors@UCSD.Edu  
Reply-To: Ham-Ant@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Ant Digest V94 #326  
To: Ham-Ant

Ham-Ant Digest                      Sat, 1 Oct 94                      Volume 94 : Issue 326

Today's Topics:

2 Meters Antenna  
ALUM. ELEMENT RESTOR  
Antenna in Search of a Job  
Antennas are prohibited ...!!!!!!  
HF antenna questions from newbie ham (semi-long)  
HT antenna question  
Tiger Tail (HT antenna) (3 msgs)  
using twin coax vs ladder line

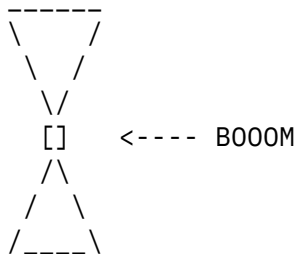
Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>  
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 29 Sep 1994 12:31:11 GMT  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!math.ohio-  
state.edu!jussieu.fr!univ-lyon1.fr!cri.ens-lyon.fr!news@network.ucsd.edu  
Subject: 2 Meters Antenna  
To: ham-ant@ucsd.edu

I've built a meters antenna ,described in a french review ,a double delta loop.



(figure for "1" element )

My antenna for the test had got 6 elements ,and the result is impressive .  
That's why if someone else had already built something like this ,I would be  
interested by his opinion and may be measures.  
If you want further informations send me a mail.

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Date: Wed, 28 Sep 1994 15:41:00 GMT  
From: ihnp4.ucsd.edu!pacbell.com!sgiblab!swrinde!howland.reston.ans.net!  
news.sprintlink.net!holonet!colossus.holonet.net!iat.holonet.net!kbsbbs!  
tom.alldread@network.ucsd.edu  
Subject: ALUM. ELEMENT RESTOR  
To: ham-ant@ucsd.edu

JC>Tom Alldread (tom.alldread@kbsbbs.com) wrote:  
JC>: Greetings to All:

JC>: I recently purchased a 15 year old 20/15 metre 9 element  
JC>: Wilson beam with a 40 foot boom. The aluminum is pretty dull  
JC>: looking and I wonder if anyone on this conference has any  
JC>: recommendations as to the best way to restore the elements back to  
JC>a nice glossy finish?

JC>: Very Best Regards and 73 to All,

JC>: Tom, VE7TMA

JC>Hello Tom:

JC>Please understand, I am not bloody minded when I ask the following  
JC>question, but I hope you can educate me:-

JC>Why would you want to do this?

JC>I ask this question for the following reasons:

JC>1. Even if is possible to gloss it up (I have no idea one way or the  
JC>other), it is only going to revert back to dull-looking after  
JC>erection.

JC>2. Assuming it is going to be on a tower, I doubt that you would be  
JC>able to tell the difference anyways. (Perhaps this for esthetics?)

JC>3. Perhaps your objective is to ensure good contact at the joints of  
JC>the antenna. If this is the case, there is a product called  
JC>"NOALOX" (I think) that assists in conductivity and prevents  
JC>aluminum to aluminum seizure. It is sold by Home Hardware (give me

JC>a few days and I should be able to get you the HH product number).

JC>In any case, let me know

JC>73 and live better digitally

JC>James of Rockland

JC>VE3XJ

Greetings James:

Thank you for your reply. This antenna was installed on a salt water beach and thus was in the salt spray zone. The joints look like they need to be cleaned up to ensure a good connection and while I am at it I thought I would try to restore the overall appearance as well. I am aware that the aluminum will oxidize again but my existing antenna that has been up 7 years looks quite a bit better than this one. I already have some NOALOX but it is nice to know that I can get some more from Home Hardware as I had to get my present tube from an electrician.

Thanks for the info James.

73

Tom

Very Best Regards,

T.M. Alldread

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\* CmpQwk #UNREG\* UNREGISTERED EVALUATION COPY

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Date: 29 Sep 1994 21:09:58 GMT

From: haven.umd.edu!umd5.umd.edu!jbytof@uunet.uu.net

Subject: Antenna in Search of a Job

To: ham-ant@ucsd.edu

A friend just purchased a surplus 30' parabolic antenna from General Dynamics in San Diego. It had been used to test radar imaging technology, I believe.

He wants to start a business providing program uplinks to geosyncsats. What equipment is required and how much would it all cost?

Thanks,

Jeff Bytof  
rabjab@golem.ucsd.edu

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Date: 30 Sep 1994 19:27:09 GMT  
From: lll-winken.llnl.gov!noc.near.net!jericho.mc.com!fugu!levine@ames.arpa  
Subject: Antennas are prohibited ...!!!!!!!  
To: ham-ant@ucsd.edu

In article 000DD789@gsusgi2.gsu.edu, cisrmp@gsusgi2.gsu.edu (Roderick Padilla) writes:

-->I live in a subdivision that WILL not accept any kind of outdoors antennas. I  
-->need to know the best solution to install 2M antenna without going "illegal".  
-->  
-->/Roderick Padilla  
-->wp4-boc

Can you have an American Flag sticking out from your house/garage?  
That "pole" holding the flag could be a nice Daimond Dual Bander  
or medium sized 2m vertical.

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Bob Levine KD1GG 7J1AIS VK2GYN formerly KA1JFP  
levine@mc.com <--Internet email Phone(508) 256-1300 x247  
kd1gg@walphy.ma <--Packet Mail FAX(508) 256-3599  
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Date: 29 Sep 1994 15:57:57 GMT  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!news.cs.utah.edu!cs.utexas.edu!  
howland.reston.ans.net!swrinde!news.uh.edu!usenet@network.ucsd.edu  
Subject: HF antenna questions from newbie ham (semi-long)  
To: ham-ant@ucsd.edu

I just got my Tech license ( :) ) and will take the test to upgrade on  
10/8 ( 5 wpm will be a shoo-in, 13 is possible but doubtful). I have a  
borrowed QRP rig, and am planning the antenna that I'll use with it. I  
would like to initially do a lot of CW until my speed gets up enough to  
upgrade, and then switch to HF phone. I have the following questions,  
posed in no particular order:

1) Under what circumstances does one use a 1:1 balun as opposed to a  
4:1? Why don't I see ads for 3.5:1 or some other ratios?

2) Do most antenna tuners include baluns? If so, the balun would not really be in the antenna system at the point where the unbalanced feed line meets the balanced antenna. Is this a problem? Does it make any kind of meaningful difference?

3) Some antenna ads mention "lossy" traps. Are traps inherently "lossy," or is the amount of loss introduced a function of the attributes of the trap?

4) If I had a transmatch, would I ever need traps in a dipole?

5) If one has an antenna which purports NOT to need a tuner, will the use of a tuner in such a system detract from the performance of the antenna? Enhance it? Make no difference either way?

6) We live in the country, with a good deal of open space around (14 acres). Nevertheless, my wife is lobbying \*heavily\* against stringing wires around the house. I have seen (and so has she) ads for the Cushcraft R5 and R7 vertical multibanders. Would either of these be an appropriate choice for a first antenna? Why? Why not? Any caveats?

7) I may be able to talk Joy (we've been married (to each other) for 35 years--this has a tendency to lull one into thinking one knows one's spouse, but there's always that nagging doubt--know what I mean?) into letting me string a single long wire (150' to possibly 400'). It would terminate in pasture, and would average about 25' above ground. Would this be useful? If so, how should it be fed? (Rig has unbalanced output only.)

Any other advice you can offer, on or off line, would be most helpful and most appreciated.

David F. Jenkins	Lurk and learn,
Decision and Information Sciences	Post and burn.
University of Houston	(S. Carpenter)
KC5JRR	

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Date: 29 Sep 1994 15:01:57 GMT  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!overload.lbl.gov!agate!spool.mu.edu!  
darwin.sura.net!coil!venus.nist.gov!onyx.nist.gov!proctor@network.ucsd.edu  
Subject: HT antenna question  
To: ham-ant@ucsd.edu

Hello all,

Before I bought an HT, I had assumed that the rubber duck antenna was a helical wire with the bottom end attached to the ground of the bnc, and the center of the bnc was connected somewhere up on the helix where the antenna looked like 50 ohms. All was fine in the world until I bought my HT, checked with an ohmmeter, and found that the ground of the bnc was not connected to anything (at DC anyway). There went my theory, and all of my other beliefs became suspect :-)

It appears that the rubber duck is simply an end feed antenna. Of course, the "electrical length" could be  $1/2$  wavelength, which would work fine without ground radials, but the impedance would not be anything like 50 ohms either. Several manufacturers sell  $1/4$  wavelength whips for HT, which would look like 50 ohms (or close enough) with suitable ground radials, but again, without the radials this would be far from 50 ohms. Then to make things worse, there are those  $5/8$  wl collapsible antennas that "perform like a rubber duck when collapsed".

Maybe I'm showing my ignorance, but is there a way to make these end feed antennas look like 50 ohms? Or maybe the finals of an HT are designed to be abused, and manufacturers will have you put almost anything on it and assume the finals will grin and bear it.

Can anyone enlighten me on HT antenna design?

Thanks,  
Jim - KE3HO

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James E. Proctor  
National Institute of Standards and Technology  
If you put your left shoe on your right foot, will it be on the right foot?  
My opinions are my own. I have the receipt to prove it.

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Date: 29 Sep 1994 15:45:47 GMT  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!  
europa.eng.gtefsd.com!news.umbc.edu!haven.umd.edu!cville-srv.wam.umd.edu!  
ham@network.ucsd.edu  
Subject: Tiger Tail (HT antenna)  
To: ham-ant@ucsd.edu

>Hello all,

>

>Before I bought an HT, I had assumed that the rubber duck antenna was a helical  
>the bnc was connected somewhere up on the helix where the antenna looked like  
>50 ohms. All was fine in the world until I bought my HT, checked with an

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>

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>ground radials, but the impedance would not be anything like 50 ohms either.
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>ohms (or close enough) with suitable ground radials, but again, without the
>radials this would be far from 50 ohms. Then to make things worse, there are
>those 5/8 wl collapsable antennas that "perform like a rubber duck when
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>

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>finals will grin and bear it.
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>

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>Can anyone enlighten me on HT antenna design?
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73,                      ----- The
                        \ /  Long  Original
Scott Rosenfeld  Amateur Radio NF3I  Burtonsville, MD      |   Live    $5.00
    WAC-CW/SSB  WAS   DXCC - 130 QSLed on dipoles _____|   Dipoles! Antenna!

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In article <36enfb\$63i@cville-srv.wam.umd.edu>, ham@wam.umd.edu (Scott Richard Rosenfeld) wrote:

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> such that it's making contact. This will be your counterpoise. Antennas West
> sells this as the "Tiger Tail." they get $7.50 for it! That's ALL it is!
> It will improve performance - it MUST do so. Only other thing I can recommend
> for improving an HT antenna would be to tune the inductance out of it by
> adding some capacitance somewhere - although a capacitance hat would make it
> dangerous and difficult to carry around...\
>
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I tried a Tiger Tail on my Kenwood TH-78A handheld (both with the standard rubber duck and with a quarter-wave whip) and it didn't seem to make any difference.

This subjective impression is not based on extensive or intensive testing. Your mileage may vary.

I'd be pleased to read reports from others on the Tiger Tail, especially objective measurements of its effects.

Regards,  
-- Russell Herman (KE4ERB)  
russell\_herman@ncsu.edu

Date: 30 Sep 1994 18:13:26 -0400  
From: america.com!not-for-mail@uunet.uu.net  
Subject: Tiger Tail (HT antenna)  
To: ham-ant@ucsd.edu

I have constructed the counterpoise (abt 19") and found no difference in my transmitted or received signal. Thinking I didn't do it right I purchased the Tiger Tail. No noticed difference in my signal. My HT is an Alinco DJ580T with an aluminum case. Mabe the case is the counterpoise in my case and the wire counterpoise makes no difference.

Anyway, The touted signal improvement with the Tiger Tail are Hogwash as far as I am concerned. Mabe someone else has had better luck.

[illegible]

Date: 30 Sep 94 18:21:00 GMT



From: news-mail-gateway@ucsd.edu  
Subject: using twin coax vs ladder line  
To: ham-ant@ucsd.edu

I am new to ham radio. I entered as a no-code tech. and now are planning to upgrade to General. I am building an hf antenna and another ham told me about seeing an antenna a long time ago that was using two coax lines to feed vs. open line. Can anyone shed any light on this? Would it be better than open line feed and how you would make the connection to both the antenna and the radio?

73 Bill N1QEU  
bcantin@foxboro.com

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End of Ham-Ant Digest V94 #326  
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